

I. Repair Work to Be Performed

A. Kubota V3800 Diesel Engine – probably should be taken to a CERTIFIED Kubota repair shop

1. Service the engine
 - Perform procedures that are requisite for an engine that has been upside down
 - Replace all fluids
 - Determine whether the turbocharger was damaged and repair or replace it if needed
 - Determine whether the injection timing system was damaged and repair it as needed
 - Determine whether the radiator system was damaged and repair or replace it if needed
 - Replace the air filter and filter cover
2. Replace engine shroud and engine mounting frame

CAUTION: US JETTING MODIFIED THE WIRING INSIDE THE ENGINE SHROUD SO IT WAS CONTROLLED BY THE JETTER OPERATOR STANDING AT THE JETTER CONTROL PANEL AT THE REAR OF THE JETTER TRAILER. DO NOT DESTROY THE CONTROL WIRES INSIDE THE SHROUD.

 - Replace the Kubota engine-mounting frame (Photo 1)
 - Replace the Kubota engine shroud (Photo 2)
 - Replace the Kubota Radiator
 - Inside the engine shroud, US Jetting had placed electrical equipment and controls for the jetter unit (electrical fuses, boxes, relays, etc.). Some of these electrical features have already failed once and to repair them required calling US Jetting to determine where they were located. Determine whether the electrical fuses/boxes /relays should be relocated during this rebuild
3. Repair or replace the diesel fuel tank and its accompanying fuel lines and fuel filter (Photo 3)
4. Repair or replace the 12-volt battery, the 12-v to 110-volt inverter, and their accompanying wiring and controls (Photo 4)
5. Replace the two photovoltaic solar panels, which charge the 12-volt battery, and its accompanying wiring and controls
6. Visually inspect the pulley and belt drive system to determine whether the Kubota engine will still run the water pump and repair or replace parts as needed

B. Spare Tire

1. Repair or replace the spare tire mount (Photo 6)
2. Weld a strap of metal over the inside dented trailer tongue and paint it to match the trailer frame (Photo 7)
3. Replace the spare tire keyed lock
4. Repair the inside diameter wheel scuffs on the spare tire
5. Replace the spare tire cover (Photo 8)

C. Tool Boxes

1. Replace both toolboxes (Photo 9 - Photo 10)

2. Insure the new tool boxes do not rub on the plastic water tanks
3. Replace and reinstall the 12-v to 110-v inverter in the right toolbox with its accompanying wiring and 110V outlet at the back of the trailer

D. Water tanks

1. Reshape the dented water tank without splitting the shell or leave it alone (Photo 11 & 12)
2. Replace the 2-inch-diameter PVC tank fill lines (Photo 11)
3. Repair or replace the broken 2-inch-diameter supply line to the water pump (Photo 13)
4. Replace the diamond aluminum front cover plate on the trailer right wheel well (Photo 9)
5. Repair or replace the Anti-freeze storage tank and its accompanying water lines and filter

E. Hose Reel Power Pull-out Assembly

1. Repair or replace the bent or broken jetter reel power pull-out bearings and the turret bearings (Photo 14)
2. Repair or replace the jetter hose reel swivel, which is currently wedged into place with bearing housings that are jammed between the swivel plate and the frame plate.
3. Repair or replace the swivel plates if necessary
4. Ensure the power pull-out unit fully extends, fully swivels 90 degrees in both directions, and fully retracts as it originally functioned
5. Ensure that the power pull-out restraining clamps attach properly (Photo 14)

F. 200-Foot Water Hose Reel

1. Remove the 200-foot garden hose reel frame from the trailer and straighten the frame
2. Install diamond aluminum plating over the hole left in the trailer frame

G. Trailer Lights and trailer brakes

1. Replace the broken trailer light on the right side of the trailer (Photo 9)
2. Check the trailer lights for function: Stop, right turn, left turn, emergency flasher and effect repairs if the trailer lights do not function per USDOT standards of safety
3. Replace the broken trailer emergency brake switch and accompanying cable at the tongue of the trailer
4. Replace the damaged trailer umbilical wire and plug
5. Ensure the trailer brakes function properly and effect repairs if the brakes do not function per USDOT standards of safety

H. Truck and Trailer Hitches

1. Replace the damaged Anderson 3410 Rapid Hitch 2" by 2-5/16" insertion ball
2. Replace the trailer tongue 2-5/15" receiver that snapped loose from the ball
3. Bend the trailer tongue jack foot-plate to its original flat position

I. Jetter Reel Control Panel and Hydraulic Controls

1. Bend the reel control panel into its original upright position (Photo 17)
2. Replace the panel cover

3. Replace the two electrical control cable connections under the control panel (Photo 18)
4. Insert the key and start the Jetter and then determine whether all the electrical and hydraulic control are working properly and repair or replace parts as needed

J. Trailer Axel

1. Replace or repair the left rear axle to ensure the left rear tire is properly aligned (Photo 19 - Photo 20)